



Product Evaluation

CWSF50 | 1216

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: CWSF-50

Effective Date: December 1, 2016

Re-evaluation Date: May 2020

Product Name: Series GPX Fire Rated Aluminum Window Wall System, Impact Resistant

Manufacturer: SAFTIFIRST
100 North Hill Drive, Suite 12
Brisbane, CA 94005-1010
(415) 230-6760

General Description:

The GPX Fire Rated is an aluminum window wall system used for commercial installations. This evaluation report includes the following storefront assemblies:

- Muller Assemblies with Reinforcement (Aluminum or Steel)

Doors: Doors referenced in this product evaluation report and in the approved drawings are SAFTIFIRST door products. The SAFTIFIRST doors used with these assemblies must be listed in separate TDI product evaluation reports.

Product Identification: A SAFTIFIRST label will be affixed to the storefront assembly.

Products Installed in Accordance with Drawing No. W15-85. The label includes the manufacturer's name (SAFTIFIRST); the product name (GPX Fire Rated Window Wall System); and that the product complies with TAS 201/202/203-94.

Limitations:**Design Drawings:**

Window Wall assemblies must comply and be installed in accordance with the following design drawing:

Drawing No. W15-85 titled "Series GPX Fire Rated Window Wall System (LMI)," Sheets 1 thru 5 of 5, dated 11/03/2015, signed and sealed by Javad Ahmad, P.E on 11/12/2015. This evaluation report refers to the stated drawings as the approved drawings.

Fabrication and Assembly: SAFTIFIRST Window wall systems are fabricated in the factory. The aluminum window wall systems are assembled and glazed at the jobsite. The approved drawings referenced in this evaluation report indicate the options for the glazing construction.

Design pressure (DP):

- The allowable design pressure rating for the storefront system is specified on the design drawing. The maximum allowable design pressure rating is +80 / -80 psf.
- If the window wall system is used with doors, then the design pressure rating of the complete assembly will be the lesser of the allowable design pressure rating for the doors and the window wall system in this evaluation report.

Impact Resistance:

- The storefront system satisfies the TDI's criteria for protection from windborne debris in both the **Inland I** and **Seaward** zones. The assemblies passed a large missile test equivalent to Missile Level D in ASTM E 1996. Install these assemblies at any height on the structure that does not exceed the assembly's design pressure rating. These assemblies do not require protection with an impact protective system when installed in areas that require windborne debris protection.

Acceptance of Other Assemblies:

- The approved drawings specify the limitations on overall width.
- Assemblies must not exceed the heights shown on the approved drawings.
- Doors used with these assemblies must be listed in separate TDI product evaluation reports.

Installation Instructions:

General: Prepare and install the assembly in accordance with the SAFTIFIRST Installation Instructions and the approved drawings specified in this evaluation report. Detailed installation instructions are available from SAFTIFIRST.

Installation:

Wall Framing Construction: The window wall system must be mounted to the wall framing construction as specified in the approved drawings (Drawing No. W15-85 titled "Series GPX Fire Rated Window Wall System (LMI)," Sheets 1 thru 5 of 5).

Fastener Requirements:

- Refer to the approved drawings for the anchor layout and notes.
- Refer to the approved drawings for the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

Note: Keep the manufacturer's installation instructions and the approved drawings available at the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.